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APPLICATION NO	. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/651,499	10/651,499 08/29/2003		Joseph D. Ng	038470/255206	7759
826	7590	12/07/2005		EXAMINER	
ALSTON			KUNEMUND, ROBERT M		
BANK OF	AMERICA AMERICA	A PLAZA			
101 SOUT	H TRYON	STREET, SUITE 40	ART UNIT	PAPER NUMBER	
CHARLOTTE, NC 28280-4000				1722	

DATE MAILED: 12/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/651,499	NG ET AL.		
Office Action Summary	Examiner	Art Unit		
	Robert M. Kunemund	1722		
The MAILING DATE of this communication ap	opears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tild d will apply and will expire SIX (6) MONTHS from tte, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 28.5	September 2005.			
2a)⊠ This action is FINAL . 2b)□ Thi	is action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.		
Disposition of Claims				
4) ⊠ Claim(s) <u>1-62</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-62</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.			
Application Papers				
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examin	ccepted or b) objected to by the e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	tion No red in this National Stage		
Attachment(s)	_			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summan Paper No(s)/Mail D			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		Patent Application (PTO-152)		

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1 to 4, 8, 12,18 to 23, 28, 34 to 36, 39 to 41 and 50 to 55 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by Ng et al (J. of Structural Biology art.).

The Ng et al reference teaches a process and an apparatus for crystallization of proteins. The apparatus consists of capillary tubes in support members and a housing member. There is a means to stabilize the tubes. There is a lower precipating reservoir where the capillary tubes contact. The crystallization takes place in the tubes by contacting the tubes with the lower reservoir. The tubes are made so that x-rays can be taken to look at the crystals, note pages 227, 228 and figure 9.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 5 to 7, 9 to 11, 13 to 17, 24 to 27, 29 to 33, 37, 38, 42 to 49 and 56 to 62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ng et al.

The Ng et al reference is relied on for the same reasons as stated, supra, and differs from the instant claims in the specific materials and sizes of the apparatus. However, in the absence of unexpected results, it would have been obvious to one of ordinary skill in the art to determine through routine experimentation the optimum, operable sizes and materials in the Ng et al apparatus in order to produce the correct size crystals and use materials, which do not pollute the crystals.

According to the Science Direct website, the Ng et al reference was published in April 2003.

Response to Applicants' Arguments

Applicant's arguments filed September 28, 2005 have been fully considered but they are not persuasive.

The declaration filed on September 28, 2005 by Dr. Ng has been fully considered and not deemed persuasive. The declaration states that Dr. Ng, Gavira-Gallardo and Garcia-Ruiz are coauthors and co inventors of the claimed invention. This creates a question as to the inventorship of the application. It is unclear from the declaration as to if the other two inventors worked on any claimed material. Clarification is required and can include change of inventorship or a list of claims and who add to that claim.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M. Kunemund whose telephone number is 571-272-1464. The examiner can normally be reached on 8 hours.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RMK

ROBERT KUNEMUND PRIMARY EXAMINER